

Amendment  
Serial No. 10/562, 542

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IN THE CLAIMS

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) A display apparatus (1) comprising:
- [[•]] an electrophoretic medium (5) comprising charged particles (6) in a fluid positioned in one of a plurality positions within said medium;
- [[•]] a plurality of picture elements (2);
- [[•]] a first and second electrode (8,9) associated with each picture element (2) for receiving a potential difference; and
- [[•]] a drive means (100) arranged to:
- a) supply a sequence of picture potential differences to each of said picture elements (2), each of said picture potential differences having a picture value and an associated picture duration, the product of said picture value and picture duration representing which represents a picture energy for enabling the particles to occupy one of the positions for displaying a picture; and
- b) supply one or more inter-picture potential differences between at least two consecutive picture potential differences to selected ones of said picture elements, said one or more inter-picture potential differences having an inter-picture value and an associated inter-picture duration, the product of said inter-picture value and inter-picture duration representing which represents an inter-picture energy which is insufficient to substantially change the positions of the particles to cause an optical state change;
- the apparatus (1) further comprising a memory means (104) for receiving and storing a data representative of the picture energy and the inter-picture energy of all of said potential differences applied to each picture element (2), and providing a running total thereof of the picture energy and the inter-picture energy for each picture element (2), the drive means (100) being arranged to select the polarity of said one or more inter-picture potential differences such that a the magnitude of said running total for a-respective a corresponding one of said picture elements (2) picture element (2)-is reduced.

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2. (Currently amended)      The apparatus ~~Apparatus~~ (1) according to claim 1, wherein a time interval is provided between each inter-picture potential difference applied to a ~~picture element~~ corresponding one of said plurality of picture elements (2).
3. (Currently amended)      The apparatus ~~Apparatus~~ (1) according to claim 2, wherein said time interval is of the order of 0.5 seconds.
4. (Currently amended)      The apparatus ~~Apparatus~~ (1) according to claim 1 ~~any one of the preceding claims~~, wherein the duration ~~pulse time period~~ of each inter-picture potential difference is 2-8ms.
5. (Currently amended)      The apparatus ~~Apparatus~~ (1) according to claim 1, ~~any one of the preceding claims~~ wherein the value of said inter-picture potential differences is substantially ~~[[the]]~~ a maximum voltage available on the drive means (100).
6. (Currently amended)      The apparatus ~~Apparatus~~ (1) according to claim 1 ~~any one of the preceding claims~~, wherein one or more of said inter-picture potential differences have an inter-picture value below ~~[[the]]~~ a switching threshold voltage of ~~the ink an ink material materials~~ used in said display apparatus.
7. (Currently amended)      The apparatus ~~Apparatus~~ (1) according to claim 1 ~~any one of the preceding claims~~, wherein ~~[[the]]~~ a number and a polarity of said inter-picture potential differences are stored in the memory means (104).

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